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# NOTICE OF ALLOWANCE AND FEE(S) DUE

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314

EXAMINER

WALTERS JR, ROBERT S

ART UNIT PAPER NUMBER

1717

DATE MAILED: 11/10/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/554,286	10/25/2005	Friedrich Linhart	278601US0PCT	3259

TITLE OF INVENTION: METHOD FOR IMPROVING PRINTABILITY ON PAPER OR PAPER PRODUCTS WITH THE AID OF INK-JET PRINTING METHOD

APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1740 \$300 \$0 \$2040 02/10/2012

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ted below or directed otl	ng the Patent, advance onerwise in Block 1, by (	orders and notification of a) specifying a new corn	maintenance fees verspondence address	vill be i ; and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPOND	Fe	e(s) Transmittal. Th	is certif il paper	icate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must		
OBLON, SPIN 1940 DUKE ST ALEXANDRIA	VAK, MCCLELL <i>i</i> REET	MAND MAIER & N	I S	nereby certify that that the	is Fee(s	of Mailing or Transı s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	nission deposited with the United t class mail in an envelope above, or being facsimile te indicated below.
							(Depositor's name)
			-				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	)R	ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/554,286	10/25/2005		Friedrich Linhart		2	78601US0PCT	3259
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1740	\$300	\$0		\$2040	02/10/2012
EXAN	MINER	ART UNIT	CLASS-SUBCLASS				
WALTERS J	R, ROBERT S	1717	427-326000	_			
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			(1) the names of up or agents OR, alterna (2) the name of a sin registered attorney o 2 registered patent at	2. For printing on the patent front page, list  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
PLEASE NOTE: Un recordation as set for (A) NAME OF ASSI	tless an assignee is ident th in 37 CFR 3.11. Com GNEE	A TO BE PRINTED ON ified below, no assignee pletion of this form is NO categories (will not be properties)	data will appear on the T a substitute for filing a (B) RESIDENCE: (CI	patent. If an assign n assignment. 'Y and STATE OR (	COUNT	TRY)	ocument has been filed for up entity
			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
a. Applicant clain	ntus (from status indicate	us. See 37 CFR 1.27.	☐ b. Applicant is no lo	onger claiming SMA	LL ENT	ΓΙΤΥ status. See 37 CF	FR 1.27(g)(2). e assignee or other party in
interest as shown by the	records of the United Sta	uired) will not be accepte ites Patent and Trademark	of from anyone other than Coffice.	і ше аррисапі; а reg	istered a	morney or agent; or th	e assignee or other party in
Authorized Signature			Date				
Typed or printed name			Registration No				
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	ntiality is governed by 35 and application form to the tions for reducing this bu Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND FEES OR (	on is required to obtain on 1.14. This collection is of depending upon the included Complete The Complete Forms of the Complete Forms of the complete Forms.	r retain a benefit by estimated to take 12 lividual case. Any co cer, U.S. Patent and FO THIS ADDRESS	the publ minutes omment Traden S. SENI	ic which is to file (and to complete, includin s on the amount of tin ark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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			WALTERS JR, ROBERT S		
			ART UNIT	PAPER NUMBER	
			1717		

DATE MAILED: 11/10/2011

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 393 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 393 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

### **Privacy Act Statement**

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No.	Applicant(s)
	10/554,286	LINHART ET AL.
Notice of Allowability	Examiner	Art Unit
	ROBERT S. WALTERS JR	1717
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Right of the Office or upon petition by the applicant. See 37 CFR 1.313  1. ☑ This communication is responsive to the appeal brief filed 8/ 2. ☐ An election was made by the applicant in response to a rest requirement and election have been incorporated into this a	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to and MPEP 1308.  /8/2011.  riction requirement set forth during to the communication in the communication in the communication is subject to the communication in the communication in the communication is subject to the commun	plication. If not included n will be mailed in due course. <b>THIS</b> o withdrawal from issue at the initiative
3. X The allowed claim(s) is/are 1-4,6,11-15,17,18 and 22-24.		
4. ☑ Acknowledgment is made of a claim for foreign priority under a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☑ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers:  1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the attached Examiner's comment regarding REQUIREMENT FOR attached	been received.  been received in Application No cuments have been received in this  of this communication to file a reply ENT of this application.  ted. Note the attached EXAMINER's as reason(s) why the oath or declarate be submitted. on's Patent Drawing Review ( PTO- as Amendment / Comment or in the Comment or in the Comment of the drawing he header according to 37 CFR 1.121( HOLOGICAL MATERIAL must be submitted in the comment of the drawing he header according to 37 CFR 1.121( HOLOGICAL MATERIAL must be submitted in the comment of the comment of the drawing he header according to 37 CFR 1.121( HOLOGICAL MATERIAL must be submitted in the comment of the	national stage application from the complying with the requirements  S AMENDMENT or NOTICE OF ation is deficient.  948) attached  Office action of ags in the front (not the back) of d).
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  /ROBERT S WALTERS JR/ Examiner, Art Unit 1717	5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 7. Examiner's Amendr 8. Examiner's Stateme 9. Other	(PTO-413), te <u><i>20111101</i></u> .

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Stitzel on 11/3/2011.

The application has been amended as follows:

In claim 1, please remove [consisting essentially of vinylamine units].

Please cancel claims 7, 9 and 10.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

First, applicant's arguments in appeal brief regarding the 112 1<sup>st</sup> rejections are persuasive. The applicant's originally filed specification supports "after the treatment with the cationic polymer the treated paper or paper product is not coated." It should be noted that "coated" has been interpreted in the art of paper coating as provided by Ullmann's Encyclopedia of Industrial Chemistry, Fifth Edition (which was supplied by applicants). Support in the specification can be found at least at page 5, lines 14-25, where the treatment is applied to the top surface of the paper or after the final coat. Additionally, the examples disclose providing the treatment and no additional coating prior to printing of the paper, thus the paper is not coated (see Examples on

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pages 8-12). Finally, it should be noted that applicant's specification alternatively provides for coating the paper product after the treatment with cationic polymer (see page 5, lines 14-19), therefore providing the basis for excluding additional coatings after the treatment with the cationic polymer. Note that it is well-settled premise of patent law that a negative limitation or exclusionary proviso explicitly excluding an element from a claim is permissible, especially when the element recited in the negative proviso is positively recited in the specification, as argued in applicant's appeal brief.

With regards to prior art, the closest prior art of record to claim 1 is Blum et al. (U.S. PGPUB No. 2004/0154764). Blum teaches a process comprising treating a paper with an aqueous solution comprising only a hydrolyzed homopolymer of N-vinylformamide, where the composition is applied in an amount of 2 g/m². Blum further teaches hydrolyzing the homopolymer to provide varying degrees of hydrolysis and imparting more or less cationic character to the polymer. Blum further teaches applying the coating by size press. However, Blum fails to teach or suggest the claimed charge density or degree of hydrolysis as is claimed, and fails to teach or suggest that these are result-effective variables, thereby failing to teach or suggest optimizing these parameters. Furthermore, Blum requires a coating step after the coating step with the cationic polymer, which has been excluded in applicant's claim. Therefore, claim 1 is patentable over the prior art of record. Claims 2-4, 6, 11-15, 17, 18 and 22-24 depend from claim 1, and are also allowable for the same reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Claims 1-4, 6, 11-15, 17, 18 and 22-24 are allowed.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ROBERT S. WALTERS JR whose telephone number is

(571)270-5351. The examiner can normally be reached on Monday-Thursday, 9:00am to

7:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dah-Wei Yuan can be reached on (571)272-1295. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MARIANNE L. PADGETT/

Primary Examiner, Art Unit 1717

/ROBERT S WALTERS JR/ November 4, 2011 Application/Control Number: 10/554,286

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Examiner, Art Unit 1717